

**Activity: Control Room Quality Surveillance**

1.0 Purpose: This guideline provides a method to evaluate the plant's practices for the Control Room operations of a Nuclear Power Plant.

2.0 Scope: This guideline has been developed for use in the review and evaluation of the following areas:

E Monitoring the plant status from the Control Room.

E Checking operator actions.

E Monitoring management control and organizational behavior centered around Control Room operations.

3.0 References:

3.1 NRC/IE Inspection Procedure 71707, "Operation Safety Verification"

3.2 INPO Good Practice OP-204, "Conduct of Operations"

4.0 Guidelines:

4.1 In preparation for and during the conduct of this surveillance:

E Obtain and review implementing procedures, instructions and drawings governing this activity.

E Prepare a guide or checklist using the selected items from this guideline.

- E Review past surveys, audits, surveillances and other evaluations/assessments.
- E Ensure that checklists include, where applicable, actual observations of performance, general plant conditions, radiological work practices, housekeeping, work document controls and use, and safety practices.

**NOTE:** Refer to Guideline A.1, "General Quality Surveillance Guidance," for specific details on the attributes listed above.

- 4.2 Verify that the Control Room is properly staffed, that access is controlled, and that operators conduct all activities in a formal business-like atmosphere. Ensure that operators are attentive in carrying out their duties and that the Control Room is free of all non-work related reading materials and electronic equipment.
- 4.3 Verify that operators are adhering to approved procedures for any ongoing activity.
- 4.4 Review Control Room, shift supervisor and tagout (out of service) logbooks, operating orders, and plant trouble reports for accuracy, completeness, and status of the plant.
- 4.5 Verify that control of temporary jumpers and lifted leads is being properly maintained. Select a random sample of six active tags and verify field locations.
- 4.6 Assure that normative logs accurately and descriptively reflect plant conditions. Review transient reports to ensure accurate dissemination of information.
- 4.7 Verify status of selected Control Room annunciators and check that operators understand the reasons why important ones are lighted. Ensure that action is being taken to return the activity/system normal.
- 4.8 Observe selected instrumentation and record traces for abnormalities. Note any differences

between channels monitoring the same parameter.

- 4.9 Verify by examining panel indications that required onsite and offsite emergency power sources are available for automatic operation.
  - 4.10 Verify that key control is being properly maintained. Review the log for accuracy and completeness.
  - 4.11 Observe operators on different shifts for adherence to proper conduct of standard shift practices.
  - 4.12 Conduct operability checks of selected ESF trains.
  - 4.13 Conduct selected ESF train walkdowns that confirm Control Room indicators.
- 5.0 Other Guidelines for Consideration:
- 5.1 A.1, "General Quality Surveillance Guidance"
  - 5.2 L.1, "Cleanliness"
  - 5.3 L.7, "Housekeeping"
  - 5.4 P.3, "Shift Manning, Relief and Turnover"
  - 5.5 P.6, "Access Control"